

Claims

What is claimed:

1. A pair of motorized shoes that transports the user forward in conjunction with, and without affecting, a normal mechanical walking action of a user.
2. A pair of electrically powered motorized shoes in claim 1 such that the sole of each shoe houses, a mechanical assembly comprising of an electrically powered set of wheel's or rollers, electric motor means, electro-mechanical means to attach wheels or rollers to the electric motor means and drive the wheels or rollers and electric power storage means.
3. A pair of shoes in claim 1 such that the sole of each shoe housing a mechanical assembly is provided with walls on the border perimeter of the sole, giving cover to the mechanical assembly, such that the said shoes with soles, which have these walls as the only contact with an underlying surface, are utilizable for normal walking action by a user.
4. A pair of shoes such that the sole of each shoe houses a mechanical assembly in claim 2 is equipped with mechanical means to elevate and

lower the assembly, such that in an elevated position the mechanical assembly is not in contact with an underlying surface, and in a lowered position the said mechanical assembly is the only contact with the underlying surface.

5. A pair of shoes such that the sole of each shoe houses a mechanical assembly in claim 2 is equipped with electro-mechanical means to elevate and lower the assembly, such that in an elevated position the mechanical assembly is not in contact with an underlying surface, and in a lowered position the said mechanical assembly is the only contact with the underlying surface.
6. A pair of shoes such that the sole of each shoe houses a mechanical assembly in claim 2 that is clasped over by a conveyor such that the conveyor is driven by the said mechanical assembly for forward transportation of the user when the said mechanical assembly is in contact with an underlying surface.
7. A pair of shoes such that the sole of each shoe houses a mechanical assembly as in claim 2 that is clasped over by a conveyor such that each conveyor is synchronous in speed to the other, when driven by the respective mechanical assembly within the respective sole for forward transportation of the user when the said mechanical assembly is in contact with an underlying surface.
8. A pair of shoes such that the sole of each shoe housing a mechanical assembly with conveyor in claim 6 such that that the assembly makes

an angle towards the instep with a straight line going from heel section to toe section, in a plane parallel to the plane of the sole.

9. A pair of shoes such that the sole of each shoe housing a mechanical assembly with conveyor in claim 6 is equipped with mechanical means to adjust in a plane parallel to the plane of the sole, an angle towards the instep that the assembly makes with a straight line going from heel section to toe section.
10. A pair of shoes such that the sole of each shoe housing a mechanical assembly with conveyor in claim 6 is equipped with electro-mechanical means to adjust in a plane parallel to the plane of the sole, an angle towards the instep that the assembly makes with a straight line going from heel section to toe section.
11. A pair of shoes such that the sole of each shoe housing a mechanical assembly with conveyor in claim 6 is equipped with mechanical means to adjust and lock, in a plane parallel to the plane of the sole, an angle towards the instep that the assembly makes with a straight line going from heel section to toe section.
12. A pair of shoes such that the sole of each shoe housing a mechanical assembly with conveyor in claim 6 is equipped with electro-mechanical means to adjust and lock, in a plane parallel to the plane of the sole, an angle towards the instep that the assembly makes with a straight line going from heel section to toe section.

13. A pair of shoes such that the sole of each shoe housing a mechanical assembly with conveyor in claim 6 is equipped with supports equipped with shock absorbing, compression and decompression mechanisms in heel section.
14. A pair of shoes such that the sole of each shoe housing a mechanical assembly with conveyor in claim 6 is equipped with supports equipped with shock absorbing, compression and decompression mechanisms and compression locking mechanism in heel section.
15. A pair of shoes such that the sole of each shoe housing a mechanical assembly with conveyor in claim 6 is equipped with supports equipped with shock absorbing, compression and decompression mechanisms in toe section.
16. A pair of shoes such that the sole of each shoe housing a mechanical assembly with conveyor in claim 6 is equipped with supports equipped with shock absorbing, compression and decompression mechanisms as well as compression locking mechanism in toe section.
17. A pair of shoes such that the sole of each shoe housing a mechanical assembly with conveyor in claim 6 is equipped with supports equipped with shock absorbing, compression and decompression mechanisms in middle section.
18. A pair of shoes such that the sole of each shoe housing a mechanical assembly with conveyor in claim 6 is equipped with supports

equipped with shock absorbing, compression and decompression mechanisms as well as compression locking mechanism in middle section.

19. A pair of shoes such that the sole of each shoe housing a mechanical assembly with conveyor in claim 6 wherein the presence of the said assemblies does not alter the balance of a standing user when the said mechanical assemblies are the only contact with an underlying surface.

20. A pair of shoes such that the sole of each shoe housing a mechanical assembly with conveyor in claim 6 wherein the presence of the said assemblies does not alter normal walking action of a user or balance of a walking user when the said mechanical assemblies are the only contact with an underlying surface.

21. A pair of shoes such that the sole of each shoe housing a mechanical assembly with conveyor in claim 6 provides an increment in walking speed, when the said mechanical assemblies with conveyors are in contact with an underlying surface in a course of normal walking action by a user.

22. A pair of shoes such that the sole of each shoe housing a mechanical assembly with conveyor in claim 6 provides an adjustable increment in walking speed, when the said mechanical assemblies with conveyors are in contact with an underlying surface in a course of normal walking action by a user.

23. A pair of shoes such that the sole of each shoe housing a mechanical assembly with conveyor in claim 6 provides an increment in walking speed, synchronized at all times between the said pair of shoes, when the said mechanical assemblies with conveyors are in contact with an underlying surface in a course of normal walking action by a user.
24. A pair of shoes such that the sole of each shoe housing a mechanical assembly with conveyor in claim 6 provides an adjustable increment in walking speed, synchronized at all times between the said pair of shoes, when the said mechanical assemblies with conveyors are in contact with an underlying surface in a course of normal walking action by a user.
25. A pair of shoes such that the sole of each shoe housing a mechanical assembly with conveyor in claim 6 providing an increment in walking speed, when the said mechanical assemblies with conveyors are in contact with an underlying surface in a course of normal walking action by a user, does not alter the normal walking action or the balance of a user during the said increment of speed.
26. A pair of shoes such that the sole of each shoe housing a mechanical assembly with conveyor in claim 6 providing a synchronized increment in walking speed, when the said mechanical assemblies with conveyors are in contact with an underlying surface in a course of normal walking action by a user, does not alter the normal walking action or the balance of a user during the said increment of speed.

27. A pair of shoes such that the sole of each shoe housing a mechanical assembly with conveyor in claim 6 is equipped with supports equipped with shock absorbing, compression and decompression mechanism in the heel section allows each of the mechanical assemblies, in respective sole, to get twisted each time by getting tilted in the heel section only; wherein the said tilt is such that a plane passing through and parallel to the conveyor surface in the heel section is no longer parallel to the plane of the sole yet parallel to an underlying surface, as the shoe initially strikes the underlying surface in the heel section in a forward walking action; wherein the direction of angle of the said tilt points in the direction of the support that is compressed more than the other, either towards the instep or away from the instep; wherein the magnitude of angle of the said tilt is directly proportional to the difference of lengths between the two compressed supports, at the instep and opposite to the instep; whereby the said tilt in the said twist goes away from the heel section as the said supports decompress and their lengths become equal to each other with the forward walking action.

28. A pair of shoes such that the sole of each shoe housing a mechanical assembly with conveyor in claim 6 wherein the said assemblies continue to function without loss of speed when each of the assemblies equipped with supports equipped with shock absorbing, compression and decompression mechanism in the heel section allows each of the mechanical assemblies, in respective sole, to get twisted each time by getting tilted in the heel section only; the said tilt is such

that a plane passing through and parallel to the conveyor surface in the heel section is no longer parallel to the plane of the sole yet parallel to an underlying surface, as the shoe initially strikes the underlying surface in the heel section in a forward walking action.

29. A pair of shoes such that the sole of each shoe housing a mechanical assembly with conveyor in claim 6 wherein the said assemblies continue to function, without variation of speed when subjected to recurrent impacts from the underlying surface, at the rear end of the heel section, while walking such that there is a component of force opposing conveyor motion.

30. A pair of shoes such that the sole of each shoe housing a mechanical assembly with conveyor in claim 6 wherein the said assemblies continue to function, without variation of speed when subjected to a recurrent torque, due to a lifting force as the said shoes lift up from the underlying surface, at the front end of the toe section while walking such that there is a component of force supplementing conveyor motion.

31. A pair of shoes such that the sole of each shoe housing a mechanical assembly with conveyor in claim 6 wherein the said assemblies continue to function, without variation of speed as each of the assemblies bend, in their respective soles, in a crumple zone as the shoes bend in a forward walking stride; the said crumple zone is a stretch of shoe length in which the shoe bends in its middle section as

it starts to lift up, from an underlying surface, in a stride of forward walking action by a user.

32. A pair of shoes as in claim 1 such that the sole of each shoe houses two mechanical assemblies, each assembly being a mechanical assembly as in claim 2 clasped over by a conveyor such that the conveyor is driven by the said mechanical assembly for forward transportation of the user when the said mechanical assembly is in contact with an underlying surface; wherein one of the said mechanical assemblies starts from the rear heel section and ends just before the crumple zone that is defined in claim 31 and the second of the said mechanical assemblies starts at the end of the crumple zone in the middle section of the sole and ends in the toe section of the sole; both mechanical assemblies in the sole are parallel to each other.

33. A pair of shoes such that the sole of each shoe housing two mechanical assemblies with conveyors in claim 32 such that each assembly in the sole makes an angle towards the instep with a straight line going from heel section to toe section, in a plane parallel to the plane of the sole wherein both mechanical assemblies in the sole are parallel to each other.

34. A pair of shoes such that the sole of each shoe housing two mechanical assemblies with conveyors in claim 32 is equipped with mechanical means to adjust in a plane parallel to the plane of the sole, an angle towards the instep that the two assemblies make with a straight line going from heel section to toe section.

- 35.A pair of shoes such that the sole of each shoe housing two mechanical assemblies with conveyors in claim 32 is equipped with electro-mechanical means to adjust in a plane parallel to the plane of the sole, an angle towards the instep that the two assemblies make with a straight line going from heel section to toe section.
- 36.A pair of shoes such that the sole of each shoe housing two mechanical assemblies with conveyors in claim 32 is equipped with mechanical means to adjust and lock in a plane parallel to the plane of the sole, an angle towards the instep that the two assemblies make with a straight line going from heel section to toe section.
- 37.A pair of shoes such that the sole of each shoe housing two mechanical assemblies with conveyors in claim 32 is equipped with electro-mechanical means to adjust and lock in a plane parallel to the plane of the sole, an angle towards the instep that the two assemblies make with a straight line going from heel section to toe section.
- 38.A pair of shoes such that the sole of each shoe housing two mechanical assemblies with conveyors in claim 32 is equipped with mechanical means to elevate and lower the assemblies, such that in an elevated position the mechanical assemblies are not in contact with an underlying surface, and in a lowered position the said mechanical assemblies are the only contact with the underlying surface.

39.A pair of shoes such that the sole of each shoe housing two mechanical assemblies with conveyors in claim 32 is equipped with electro-mechanical means to elevate and lower the assemblies, such that in an elevated position the mechanical assemblies are not in contact with an underlying surface, and in a lowered position the said mechanical assemblies are the only contact with the underlying surface.

40.The rear assembly of the two mechanical assemblies in one sole of the pair of shoes as in claim 32 is not subjected to a recurrent torque, due to a lifting force as the said shoes lift up from the underlying surface, at the front end of the toe section while walking forward.

41.The front assembly of the two mechanical assemblies in one sole of the pair of shoes as in claim 32 is not subjected to recurrent impacting due to impacts on the heel section while walking forward.

42.A pair of shoes as in claim 1 such that the sole of each shoe houses multiple mechanical assemblies each assembly being a mechanical assembly as in claim 2 clasped over by a conveyor such that the conveyor is driven by the mechanical assembly for forward transportation of the user when the said mechanical assembly is in contact with an underlying surface wherein each of the said assemblies in one sole is parallel to one another.

43.A pair of shoes such that the sole of each shoe houses multiple mechanical assemblies each assembly being a mechanical assembly as

in claim 2, separated from other assemblies within the sole by a wall, clasped over by a conveyor such that the conveyor is driven by the mechanical assembly for forward transportation of the user when the said mechanical assembly is in contact with an underlying surface wherein each of the said assemblies in one sole is parallel to one another.

44.A pair of shoes such that the sole of each shoe houses multiple mechanical assemblies each assembly being a mechanical assembly as in claim 2, separated from other assemblies within the sole by a wall, clasped over by a conveyor such that the conveyor is driven by the mechanical assembly for forward transportation of the user when the said mechanical assembly is in contact with an underlying surface whereby walls as border perimeter of the sole exist covering the mechanical assemblies wherein each of the said assemblies in one sole is parallel to one another.

45.A pair of shoes such that the sole of each shoe housing multiple mechanical assemblies with conveyor in claim 42 wherein the said assemblies continue to function, without variation of speed as each of the assemblies bend, in their respective soles, in a crumple zone as the shoes bend in a forward walking stride; the said crumple zone is a stretch of shoe length in which the shoe bends in its middle section as it starts to lift up, from an underlying surface, in a stride of forward walking action by a user.

46.A pair of shoes such that the sole of each shoe housing multiple mechanical assemblies with conveyors in claim 42 is equipped with mechanical means to elevate and lower the assemblies, such that in an elevated position the mechanical assemblies are not in contact with an underlying surface, and in a lowered position the said mechanical assemblies are the only contact with the underlying surface.

47.A pair of shoes such that the sole of each shoe housing multiple mechanical assemblies with conveyors in claim 42 is equipped with electro-mechanical means to elevate and lower the assemblies, such that in an elevated position the mechanical assemblies are not in contact with an underlying surface, and in a lowered position the said mechanical assemblies are the only contact with the underlying surface.

48.A pair of shoes such that the sole of each shoe housing multiple mechanical assemblies with conveyors in claim 42 such that each assembly in the sole makes an angle towards the instep with a straight line going from heel section to toe section, in a plane parallel to the plane of the sole wherein all mechanical assemblies in the sole are parallel to each other.

49.A pair of shoes such that the sole of each shoe housing multiple mechanical assemblies with conveyors in claim 42 is equipped with mechanical means to adjust in a plane parallel to the plane of the sole, an angle towards the instep that the multiple assemblies make with a straight line going from heel section to toe section.

50.A pair of shoes such that the sole of each shoe housing multiple mechanical assemblies with conveyors in claim 42 is equipped with electro-mechanical means to adjust in a plane parallel to the plane of the sole, an angle towards the instep that the multiple assemblies make with a straight line going from heel section to toe section.

51.A pair of shoes such that the sole of each shoe housing multiple mechanical assemblies with conveyors in claim 42 is equipped with mechanical means to adjust and lock, in a plane parallel to the plane of the sole, an angle towards the instep that the multiple assemblies make with a straight line going from heel section to toe section.

52.A pair of shoes such that the sole of each shoe housing multiple mechanical assemblies with conveyors in claim 42 is equipped with electro-mechanical means to adjust and lock, in a plane parallel to the plane of the sole, an angle towards the instep that the multiple assemblies make with a straight line going from heel section to toe section.

53.A pair of shoes such that the sole of each shoe houses multiple mechanical assemblies in claim 42 wherein each assembly has spring supports that compress and decompress only in a linear direction perpendicular to the plane of the sole.

54.A pair of shoes such that the sole of each shoe houses multiple mechanical assemblies in claim 42 wherein the plane of conveyor

surface of the farthest mechanical assembly from the instep, is tilted in its entire length at an angle, with respect to the plane of the sole, away from the instep.

55.A pair of shoes such that the sole of each shoe houses multiple mechanical assemblies in claim 42 wherein the plane of conveyor surface of the farthest mechanical assembly from the instep, is tilted in its entire length at an angle, which is adjustable, with respect to the plane of the sole away from the instep.

56.A pair of shoes in such that the sole of each shoe houses multiple mechanical assemblies in claim 42 wherein the planes of conveyor surfaces of the two farthest mechanical assemblies from the instep are tilted in their entire lengths at an angle, with respect to the plane of the sole, away from the instep.

57.A pair of shoes in such that the sole of each shoe houses multiple mechanical assemblies in claim 42 wherein the planes of conveyor surfaces of the two farthest mechanical assemblies from the instep are tilted in their entire lengths at an angle, each of which is adjustable in independently, with respect to the plane of the sole away from the instep.

58.A pair of shoes such that the sole of each shoe houses multiple mechanical assemblies in claim 42 wherein the planes of conveyor surfaces of the two farthest mechanical assemblies from the instep are

twisted such that they are tilted, in the heel section only, with respect to the plane of the sole away from the instep.

59.A pair of shoes such that the sole of each shoe houses multiple mechanical assemblies in claim 42 wherein the planes of conveyor surfaces of the two farthest mechanical assemblies from the instep are twisted such that they are tilted, in the heel section only, at an angle, each of which is adjustable independently, with respect to the plane of the sole away from the instep.

60.A pair of shoes such that the sole of each shoe houses multiple mechanical assemblies in claim 42 wherein the plane of conveyor surface of the closest mechanical assembly towards the instep is twisted such that it is tilted in the toe section only, at an angle, with respect to the plane of the sole, towards the instep.

61.A pair of shoes such that the sole of each shoe houses multiple mechanical assemblies in claim 42 wherein the plane of conveyor surface of the closest mechanical assembly towards the instep is twisted such that it is tilted in the toe section only, at an angle, which is adjustable, with respect to the plane of the sole, towards the instep.

62.A pair of shoes such that the sole of each shoe houses multiple mechanical assemblies in claim 42 wherein the planes of conveyor surfaces of the two farthest mechanical assemblies from the instep are twistable such that they can reflexively tilt, in the heel section only, at

a same angle, with respect to the plane of the sole, away from the instep.

63.A pair of shoes such that the sole of each shoe houses multiple mechanical assemblies in claim 42 wherein the planes of conveyor surfaces of the two farthest mechanical assemblies from the instep are twistable such that they can reflexively tilt, in the heel section only, at different angles independent of each other, with respect to the plane of the sole, away from the instep.

64.A pair of shoes such that the sole of each shoe houses multiple mechanical assemblies in claim 42 wherein the plane of conveyor surface of the closest mechanical assembly towards the instep is twistable such that it can reflexively tilt in the toe section only, at an angle, with respect to the plane of the sole, towards the instep.

65.A pair of shoes such that the sole of each shoe houses multiple mechanical assemblies in claim 42 wherein the lengths of the said mechanical assemblies are unequal.

66.A pair of shoes such that the sole of each shoe houses multiple mechanical assemblies in claim 42 wherein the length of the mechanical assembly closest to the instep is shorter than assemblies located in the central part of the sole such that its starting point in the heel section is recessed towards the middle section of the sole.

- 67.A pair of shoes such that the sole of each shoe houses multiple mechanical assemblies in claim 42 wherein the length of the mechanical assembly farthest from the instep is shorter than assemblies located in the central part of the sole such that its endpoint in the toe section is recessed towards the middle section of the sole.
- 68.A pair of shoes in claim 2 wherein the mechanical assemblies are electronically motorized mechanical assemblies such that all electrical and mechanical operations are electronically and remotely controlled.
- 69.A pair of shoes in claim 5 wherein the mechanical assemblies are electronically motorized mechanical assemblies such that all electrical and mechanical operations are electronically and remotely controlled.
- 70.A pair of shoes in claim 6 wherein the mechanical assemblies are electronically motorized mechanical assemblies such that all electrical and mechanical operations are electronically and remotely controlled.
- 71.A pair of shoes in claim 10 wherein the mechanical assemblies are electronically motorized mechanical assemblies such that all electrical and mechanical operations are electronically and remotely controlled.
- 72.A pair of shoes in claim 12 wherein the mechanical assemblies are electronically motorized mechanical assemblies such that all electrical and mechanical operations are electronically and remotely controlled.

- 73.A pair of shoes in claim 14 wherein the mechanical assemblies are electronically motorized mechanical assemblies such that all electrical and mechanical operations are electronically and remotely controlled.
- 74.A pair of shoes in claim 16 wherein the mechanical assemblies are electronically motorized mechanical assemblies such that all electrical and mechanical operations are electronically and remotely controlled.
- 75.A pair of shoes in claim 18 wherein the mechanical assemblies are electronically motorized mechanical assemblies such that all electrical and mechanical operations are electronically and remotely controlled.
- 76.A pair of shoes in claim 22 wherein the mechanical assemblies are electronically motorized mechanical assemblies such that all electrical and mechanical operations are electronically and remotely controlled.
- 77.A pair of shoes in claim 23 wherein the mechanical assemblies are electronically motorized mechanical assemblies such that all electrical and mechanical operations are electronically and remotely controlled.
- 78.A pair of shoes in claim 24 wherein the mechanical assemblies are electronically motorized mechanical assemblies such that all electrical and mechanical operations are electronically and remotely controlled.
- 79.A pair of shoes in claim 32 wherein the mechanical assemblies are electronically motorized mechanical assemblies such that all electrical and mechanical operations are electronically and remotely controlled.

- 80.A pair of shoes in claim 35 wherein the mechanical assemblies are electronically motorized mechanical assemblies such that all electrical and mechanical operations are electronically and remotely controlled.
- 81.A pair of shoes in claim 37 wherein the mechanical assemblies are electronically motorized mechanical assemblies such that all electrical and mechanical operations are electronically and remotely controlled.
- 82.A pair of shoes in claim 39 wherein the mechanical assemblies are electronically motorized mechanical assemblies such that all electrical and mechanical operations are electronically and remotely controlled.
- 83.A pair of shoes in claim 42 wherein the mechanical assemblies are electronically motorized mechanical assemblies such that all electrical and mechanical operations are electronically and remotely controlled.
- 84.A pair of shoes in claim 43 wherein the mechanical assemblies are electronically motorized mechanical assemblies such that all electrical and mechanical operations are electronically and remotely controlled.
- 85.A pair of shoes in claim 44 wherein the mechanical assemblies are electronically motorized mechanical assemblies such that all electrical and mechanical operations are electronically and remotely controlled.

- 86.A pair of shoes in claim 47 wherein the mechanical assemblies are electronically motorized mechanical assemblies such that all electrical and mechanical operations are electronically and remotely controlled.
- 87.A pair of shoes in claim 50 wherein the mechanical assemblies are electronically motorized mechanical assemblies such that all electrical and mechanical operations are electronically and remotely controlled.
- 88.A pair of shoes in claim 52 wherein the mechanical assemblies are electronically motorized mechanical assemblies such that all electrical and mechanical operations are electronically and remotely controlled.
- 89.A pair of shoes in claim 55 wherein the mechanical assemblies are electronically motorized mechanical assemblies such that all electrical and mechanical operations are electronically and remotely controlled.
- 90.A pair of shoes in claim 57 wherein the mechanical assemblies are electronically motorized mechanical assemblies such that all electrical and mechanical operations are electronically and remotely controlled.
- 91.A pair of shoes in claim 59 wherein the mechanical assemblies are electronically motorized mechanical assemblies such that all electrical and mechanical operations are electronically and remotely controlled.
- 92.A pair of shoes in claim 61 wherein the mechanical assemblies are electronically motorized mechanical assemblies such that all electrical and mechanical operations are electronically and remotely controlled.

93. A pair of shoes in claim 2 such that the sole of each shoe houses a set of sensors.
94. A pair of shoes in claim 32 such that the sole of each shoe houses a set of sensors.
95. A pair of shoes in claim 42 such that the sole of each shoe houses a set of sensors.
96. A pair of shoes in claim 2 such that the sole of each shoe houses a set of sensors that measures walking speed of a user.
97. A pair of shoes in claim 32 such that the sole of each shoe houses a set of sensors that measures walking speed of a user.
98. A pair of shoes in claim 42 such that the sole of each shoe houses a set of sensors that measures walking speed of a user.
99. A pair of shoes in claim 2 such that the sole of each shoe houses a set of sensors that generates a profile of a pressure pattern of a foot in a course of a walking action of a user.
100. A pair of shoes in claim 32 such that the sole of each shoe houses a set of sensors that generates a profile of a pressure pattern of a foot in a course of a walking action of a user.

101. A pair of shoes in claim 42 such that the sole of each shoe houses a set of sensors that generates a profile of a pressure pattern of a foot in a course of a walking action of a user.
102. A pair of shoes in claim 2 such that the sole of each shoe houses a set of sensors that measures walking speed of a user and a set of sensors that generates a profile of a pressure pattern of a foot in a course of a walking action of a user.
103. A pair of shoes in claim 32 such that the sole of each shoe houses a set of sensors that measures walking speed of a user and a set of sensors that generates a profile of a pressure pattern of a foot in a course of a walking action of a user.
104. A pair of shoes in claim 42 such that the sole of each shoe houses a set of sensors that measures walking speed of a user and a set of sensors that generates a profile of a pressure pattern of a foot in a course of a walking action of a user.
105. A pair of shoes in claim 2 such that it houses a computer that keeps the speed of the mechanical assemblies on both soles synchronized to be the same.
106. A pair of shoes in claim 32 such that it houses a computer that keeps the speed of the mechanical assemblies on both soles synchronized to be the same.

107. A pair of shoes in claim 42 such that it houses a computer that keeps the speed of the mechanical assemblies on both soles synchronized to be the same.
108. A pair of shoes in claim 2 such that it houses a computer and each sole of the pair houses sensors and wherein the computer receiving information from the sensors deduces the intent of the user.
109. A pair of shoes in claim 32 such that it houses a computer and each sole of the pair houses sensors and wherein the computer receiving information from the sensors deduces the intent of the user.
110. A pair of shoes in claim 42 such that it houses a computer and each sole of the pair houses sensors and wherein the computer receiving information from the sensors deduces the intent of the user.
111. A pair of shoes in claim 2 such that it houses a computer and each sole of the pair houses sensors and wherein the computer receiving information from the sensors deduces the intent of the user and synchronously changes the speed of the mechanical assemblies in both the soles.
112. A pair of shoes in claim 32 such that it houses a computer and each sole of the pair houses sensors and wherein the computer receiving information from the sensors deduces the intent of the user and synchronously changes the speed of the mechanical assemblies in both the soles.

113. A pair of shoes in claim 42 such that it houses a computer and each sole of the pair houses sensors and wherein the computer receiving information from the sensors deduces the intent of the user and synchronously changes the speed of the mechanical assemblies in both the soles.
114. A pair of shoes in claim 2 such that it houses a computer and each sole of the pair houses sensors and wherein the computer receiving information from the sensors deduces the intent of the user and synchronously decreases the speed of the mechanical assemblies in both the soles.
115. A pair of shoes in claim 32 such that it houses a computer and each sole of the pair houses sensors and wherein the computer receiving information from the sensors deduces the intent of the user and synchronously decreases the speed of the mechanical assemblies in both the soles.
116. A pair of shoes in claim 42 such that it houses a computer and each sole of the pair houses sensors and wherein the computer receiving information from the sensors deduces the intent of the user and synchronously decreases the speed of the mechanical assemblies in both the soles.
117. A pair of shoes in claim 2 such that it houses a computer and each sole of the pair houses sensors and wherein the computer

receiving information from the sensors deduces the intent of the user and synchronously increases the speed of the mechanical assemblies in both the soles.

118. A pair of shoes in claim 32 such that it houses a computer and each sole of the pair houses sensors and wherein the computer receiving information from the sensors deduces the intent of the user and synchronously increases the speed of the mechanical assemblies in both the soles.

119. A pair of shoes in claim 42 such that it houses a computer and each sole of the pair houses sensors and wherein the computer receiving information from the sensors deduces the intent of the user and synchronously increases the speed of the mechanical assemblies in both the soles.

120. A pair of shoes in claim 2 such that it houses a computer and each sole of the pair houses sensors and wherein the computer receiving information from the sensors deduces the intent of the user and synchronously stops the mechanical assemblies in both the soles.

121. A pair of shoes in claim 32 such that it houses a computer and each sole of the pair houses sensors and wherein the computer receiving information from the sensors deduces the intent of the user and synchronously stops the mechanical assemblies in both the soles.

122. A pair of shoes in claim 42 such that it houses a computer and each sole of the pair houses sensors and wherein the computer receiving information from the sensors deduces the intent of the user and synchronously stops the mechanical assemblies in both the soles.
123. A pair of shoes in claim 2 such that the sole of each shoe houses a computer wherein the two computers on each sole are in wireless communication with each other.
124. A pair of shoes in claim 32 such that the sole of each shoe houses a computer wherein the two computers on each sole are in wireless communication with each other.
125. A pair of shoes in claim 42 such that the sole of each shoe houses a computer wherein the two computers on each sole are in wireless communication with each other.
126. A pair of shoes in claim 2 such that the sole of each shoe houses a computer wherein the two computers on each sole in wireless communication with each other ensure that the speed of all mechanical assemblies on both the soles is synchronized to be the same.
127. A pair of shoes in claim 32 such that the sole of each shoe houses a computer, wherein the two computers on each sole in wireless communication with each other ensure that the speed of all

mechanical assemblies on both the soles is synchronized to be the same.

128. A pair of shoes in claim 42 such that the sole of each shoe houses a computer wherein the two computers on each sole in wireless communication with each other ensure that the speed of all mechanical assemblies on both the soles is synchronized to be the same.

129. A pair of shoes in claim 2 such that the sole of each shoe houses a computer wherein the two computers on each sole in wireless communication and each sole of the pair houses sensors; wherein the computers receiving information from the sensors deduce the intent of the user.

130. A pair of shoes in claim 32 such that the sole of each shoe houses a computer wherein the two computers on each sole in wireless communication and each sole of the pair houses sensors; wherein the computers receiving information from the sensors deduce the intent of the user.

131. A pair of shoes in claim 42 such that the sole of each shoe houses a computer wherein the two computers on each sole in wireless communication and each sole of the pair houses sensors; wherein the computers receiving information from the sensors deduce the intent of the user.

132. A pair of shoes in claim 2 such that the sole of each shoe houses a computer wherein the two computers on each sole in wireless communication and each sole of the pair houses sensors; wherein the computers receiving information from the sensors deduce the intent of the user and synchronously change the speed of the mechanical assemblies in both the soles.
133. A pair of shoes in claim 32 such that the sole of each shoe houses a computer wherein the two computers on each sole in wireless communication and each sole of the pair houses sensors; wherein the computers receiving information from the sensors deduce the intent of the user and synchronously change the speed of the mechanical assemblies in both the soles.
134. A pair of shoes in claim 42 such that the sole of each shoe houses a computer wherein the two computers on each sole in wireless communication and each sole of the pair houses sensors; wherein the computers receiving information from the sensors deduce the intent of the user and synchronously change the speed of the mechanical assemblies in both the soles.
135. A pair of shoes in claim 2 wherein the mechanical assemblies are electronically motorized mechanical assemblies such that all electrical and mechanical operations are computer controlled.

136. A pair of shoes in claim 32 wherein the mechanical assemblies are electronically motorized mechanical assemblies such that all electrical and mechanical operations are computer controlled.

137. A pair of shoes in claim 42 wherein the mechanical assemblies are electronically motorized mechanical assemblies such that all electrical and mechanical operations are computer controlled.